

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE *****	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 04 FEB 17	4. REQUISITION/PURCHASE REQ. NO. 95500 /33117243	5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE NSWC CARDEROCK DIVISION 5001 S. BROAD STREET, CODE 3353 PHILADELPHIA PA 19112-1403 BUYER/SYMBOL: S. THOMPSON		7. ADMINISTERED BY (If other than item 6) CODE		

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICITATION NO.
	X	N65540 04 Q 0057
		9B. DATED (SEE ITEM 11) 03 DEC 05
		10A. MODIFICATION OF CONTRACT/ORDER NO.
CODE	FACILITY CODE	10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods.

(a) By completing items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of the amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)

THIS AMENDMENT IS ISSUED TO INCORPORATE THE FOLLOWING CHANGES:
SEE ATTACHED SHEETS
ANY QUESTIONS REGARDING THIS AMENDMENT SHOULD BE IN WRITING AND SENT TO:
THOMPSONS@NSWCCD.NAVY.MIL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		S. Thompson, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY S. Thompson (Signature of Contracting Officer)	02/17/04

1. Answers to questions submitted by prospective offerors under this RFQ are provided as follows:

Q1. We are assuming that the 8"x8" plasma display unit is no longer manufactured. In selecting the most appropriate alternative to fit within the existing mechanical envelope & mounting constraints, we need to know which of the display constraints of the original specification (if any) can be modified to achieve a solution to the problem. Will alternatives to Plasma technologies be accepted as viable solutions? In specific, AMLCD?

A1. Alternatives to Plasma technologies such as AMLCD (Active Matrix Liquid Crystal Display) will be considered.

Q2. The spec calls for a minimum of 7.9" x 7.9" active display area with 508x508 or 512x512 addressable pixels having a min. spacing of 60 pixels/ inch at approx. 0.010 inches each. Section 3.2.2 of the spec. also details many other requirements of the display. Are any of these specification items absolutely critical to achieve acceptable system performance or will a "closest match" alternative be considered as a viable solution given compliance to the alphanumeric display requirements of section 3.2.3, etc.?

A2. The Government is seeking the "closest match", commercially available display, modified as required, meeting the alphanumeric display requirements of section 3.2.3 and retaining keyboard functions defined in section 3.2.3.1 of the Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P.

Q3. Will a 4:3 aspect ratio display be accepted as a viable solution?

A3. An aspect ratio of 4:3 would be acceptable provided requirements in section 3.2.3 are not compromised. Machinery Control System Data is currently displayed on "Pages" that require a display capacity and a corresponding active display area, defined in section 3.2.3.4 of the Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P. In addition, overall dimensions of the replacement display must adhere to the dimensions identified on sheet 14 of the specification with the exception of the identified dimensions for the glass panel.

Q4. Has a fully compliant display already been identified by the Navy?

A4. The Government is not aware of any Display that meets the specification requirements.

Q5. We are required to perform an EMI Test as part of the First Article Test. Is the EMI Test limited to RS03 and RE01? Or everything listed as part of MIL-STD-461B? Or some other sub-set of MIL-STD-461B is required? If a subset of MIL-STD-461B is required, please identify the subset. The reason we are asking is doing all the procedures specified in MIL-STD- 461B is costly as well as it will take longer. Your program may not require all the procedures specified in MIL-STD-461B .

A5. In lieu of the requirement contained in paragraph 3.3.5.8 of General Electric Drawing Number 63A141835, EMI Testing shall be in accordance with Military Standard MIL-STD-461E. Table V of MIL-STD-461E summarizes the EMI testing requirements for the Display Unit. As indicated below, the paragraph 3.2 a) of the Technical specification has been revised to reflect this change.

2. Paragraph 3.2 a) of the Technical Specification for Replacement Display unit used on DDG-51 thru 82 and AOE Class Machinery Control Consoles, which was provided as Attachment I to the RFQ is changed to read as follows:

3.2 Contractor Testing

- a) Contractor shall perform Vibration/Shock/EMI Testing on First Article Panel Display Unit. Vibration/Shock Testing shall be in accordance with Sections 3.3.5.3 and 3.3.5.4, respectively, of the Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P. EMI testing shall be in accordance with MIL-STD-461 Revision E. The unit shall meet and demonstrate compliance with the requirements of MIL-STD-461 Rev E dated 20 August 1999 for Surface Ship, Below Deck, Metallic Hull installations. Table V of MIL-STD-461E summarizes requirements for this application. This EMI requirement replaces Section 3.3.5.8 of the Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P. Contractor shall submit a test report detailing the results of the Vibration/Shock/EMI testing performed. The contractor shall develop Electromagnetic Interference Control Procedures (EMICP) in accordance with Data Item Description DI-EMCS-80199B and Electromagnetic Interference Test Procedures (EMITP) in accordance with Data Item Description DI-EMCS-80201B and furnish those procedures as part of the First Article Test Report. The Electromagnetic Interference Test Report (Item 0007) shall be in accordance with Data Item Description DI-EMCS-80200B.

3. Data Item A001 on page 1 of the DD Form 1423, Contract Data Requirements List, which was provided as Exhibit A to this RFQ, is hereby replaced by Data Item A001 on the DD Form 1423, Contract Data Requirements List provided as Exhibit A to this amendment.

4. The due date for the receipt of quotations is hereby re-established as Wednesday, February 25, 2004 at 1200 hours (12:00 PM EST).

Attachment: Technical Specification for Replacement Display Unit Used on DDG 51 Thru 82 DDG and AOE Class Machinery Control Consoles 3 Pages

Exhibit: (A) DD Form 1423, Contract Data Requirements List (1 Page)

**TECHNICAL SPECIFICATION FOR
REPLACEMENT DISPLAY UNIT
USED ON
DDG 51 THRU 82 DDG AND AOE CLASS
MACHINERY CONTROL CONSOLES**

1. INTRODUCTION

- 1.1. This specification establishes requirements for the furnishing of a commercially available Display Unit as a form, fit and function replacement for current DDG Machinery Control Consoles Plasma Display Units, utilizing existing power supply and connections.

2. PANEL DISPLAY DESIGN REQUIREMENTS

- 2.1. The Panel Unit will be used on DDG 51 through 82 and AOE Class Machinery Control Consoles in accordance with the following requirements:
 - a) Commercial Display Unit adapted for the DDG and AOE Class Machinery Control Consoles using techniques and processes available in the commercial marketplace.
 - b) The proposed Display Unit design shall replace an 8 inch X 8 inch AC Plasma Display Unit head assembly that emulates a medium performance CRT type terminal with alpha-graphic capabilities. The proposed Display Unit will utilize existing power and data input cables and meet size and mounting specifications such that the proposed display is a form, fit, and function replacement for existing display.
 - c) The Display Unit will be adapted to interface with the existing control system components and will be tested at the Land Based Engineering Station (LBES) platform.
- 2.2. Detailed specifications for current Plasma Display Unit are contained in Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P. Existing power supply unit (PSU) and keyboard will be utilized. Specifications for PSU and keyboard are included in above referenced specification; para's 3.28 and 3.29 apply.

3. FIRST ARTICLE TESTING

- 3.1. Testing will be accomplished on the first article delivered to ensure it is an acceptable replacement for current Plasma Display Unit and functions as intended in the DDG/AOE Machinery Controls System (MCS). Both the contractor and Government will accomplish this testing.
- 3.2. Contractor Testing
 - a) Contractor shall perform Vibration/Shock/EMI Testing on First Article Panel Display Unit. Vibration/Shock Testing shall be in accordance with Sections 3.3.5.3, 3.3.5.4, respectively, of the Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P. EMI testing shall be in accordance with MIL-STD-461 Revision E. The unit shall meet and demonstrate compliance with the requirements of MIL-STD-461 Rev E dated 20 August 1999 for Surface Ship, Below Deck, Metallic Hull installations. Table V of MIL-STD-461E summarizes requirements for this application. This EMI requirement replaces Section 3.3.5.8 of the Lockheed Martin-formerly General Electric-Specification for Plasma Display, 63A141835 Rev P. Contractor shall submit a test report detailing the results of the Vibration/Shock/EMI testing performed. The contractor shall develop Electromagnetic Interference Control Procedures (EMICP) in accordance with Data Item Description DI-EMCS-80199B and Electromagnetic Interference Test Procedures (EMITP) in accordance with Data Item Description DI-EMCS-80201B and furnish those procedures as part of the First Article Test Report. The Electromagnetic Interference Test Report (Item 0007) shall be in accordance with Data Item Description DI-EMCS-80200B.

3.3. Government Testing

- a) Upon completion of the tests by the contractor described in par. 4.2, the contractor shall deliver the First Article Test to the Government. The Government will test First Article in NSWCCD, Phila. test facility. Testing will be accomplished by installing first article in the DDG machinery Control System consoles. NSWCCD will ensure physical mounting in MCS console panels and power supply/data connections are acceptable. In addition, functionality testing will be performed to ensure: keyboard functions verification and display control, visual parameters, display screen characteristics and alphanumeric display. In addition, the Government will perform any other examination or inspection it deems necessary to determine compliance with the specification requirements. The First Article sample will be retained by the Government and shall not be considered one of the production units covered by Item 0001.

4. DOCUMENTATION

- 4.1. The contractor shall provide a commercial Technical Manual detailing operation, maintenance and parts breakdown.
- 4.2. Contractor shall provide software source files and tools required for software developed for replacement display unit.
- 4.3. Contractor shall provide Engineering Data For Provisioning for parts and assemblies to the detail of Level 2 drawings. Drawings will be utilized for provisioning replacement display unit and monitoring obsolescence of components.
- 4.4. First Article Contractor Test Report including Vibration/Shock/EMI Testing Reports.

5. DATA RIGHTS

- 5.1. The Government shall have the right to use, modify, reproduce, release, perform or disclose "technical data" (as defined in clause (a)(14) of DFAR 252.227-7013(NOV 1995)), "commercial computer software" (as defined in clause (a)(1) of DFARS 252.227-7014 (JUNE 1995)) and "noncommercial computer software" (as defined in clause (a)(13) of DFARS 252-227-7014 (JUNE 1995) developed under this Agreement for Government purposes such as the evaluation, installation, operation, maintenance, repair and modification (but not competitive procurement or manufacture) of the Display Panel.
- 5.2. In addition, the Government shall have unlimited rights in technical data that: are form, fit and function data (as defined in clause (a)(10) of DFARS 252.227-7013 (NOV 1995); are corrections or changes to technical data furnished to the Contractor by the Government; are instructional material; or, the Government has obtained unlimited rights under another Government contract or as a result of negotiations.
- 5.3. Rights to Commercial Technical Data, Commercial Computer Software, and Commercial Computer Software Documentation Developed Outside of this Agreement
 - a) Contractor will ensure that all licenses needed for the use of Commercial Technical Data (CTD), Commercial Computer Software (CCS), and Commercial Computer Software Documentation (CCSD) delivered (but not developed) under this Agreement are supplied to the Government. The Government's rights in CTD incorporated into deliverables under the Agreement shall be determined in accordance with DFARS 252-227-7015, "Technical Data – Commercial Items (Nov 1995)," which is hereby incorporated by reference. The Government shall have the rights specified in the license customarily provided to the public, a copy of which shall be provided to the Government, in all CCS and CCSD incorporated into the deliverable under this Agreement. All such CCS and CCSD software shall be marked with appropriate restrictive markings in accordance with best commercial practices.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the government Issuing Contracting Officer for the Contract/PR No. in Block E.

A. CONTRACT LINE ITEM NO. 0007		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER <u>TESTING</u>	
D. SYSTEM/ITEM CONSOLE DISPLAY UNIT		E. CONTRACT/PR NO.		F. CONTRACTOR	
1. DATA ITEM NO. A001		2. TITLE OF DATA ITEM FIRST ARTICLE TEST REPORT		3. SUBTITLE SUPPLEMENTAL ENGINEERING DATA FOR TESTING	
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16		5. CONTRACT REFERENCE SOW Para 4.4		6. REQUIRING OFFICE NSWCCD-SSES CODE 955	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY ONE/R	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION	
8. APP CODE	SEE BLK 16	11. AS OF DATE	13. DATE IF SUBSEQUENT SUBM. SEE BLK 16	b. COPIES	
				a. ADDRESSEE	final
					draft reg repr
16. REMARKS				NSWCCD-SSES 955	
<p>BLOCK 4: The First Article Test Report shall include Electromagnetic Interference Control Procedures in accordance with DID-EMCS-80199B, Electromagnetic Interference Test Procedures in accordance with DI-EMCS-80201B and an Electromagnetic Interference Test Report in accordance with DI-EMCS-80200B.</p> <p>BLOCK 9: Distribution Statement A: Approved for Public Release; Distribution is Unlimited; unless proprietary or classified information applies then distribution statement B applies. Other requests for this data item shall be referred to the Prime Provisioning Activity (PPA).</p> <p>BLOCK 12: A First Article Test (FAT) Report shall be submitted to NSWCCD-SSES 955 for review and approval within 150 days after date of order.</p> <p>BLOCK 13: Government will review the FAT Report and respond to the contractor with approval or disapproval, with noted deficiencies, within 21 calendar days after receipt of the FAT Procedure. Contractor shall address and resubmit resolution recommendations to deficiencies with 21 calendar days after receipt of the Government's findings. Contractor is responsible for any required re-testing of any portion of the First Article Test not resolved.</p>					
				15. TOTAL ----->	
G. PREPARED BY MICHAEL GRAY, CODE 955		H. DATE 11/7/03		I. APPROVED BY	
				J. DATE 11/7/03	

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE